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(FILE 'HOME' ENTERED AT 11:43:09 ON 22 MAY 2007)

FILE 'CASREACT' ENTERED AT 11:43:24 ON 22 MAY 2007

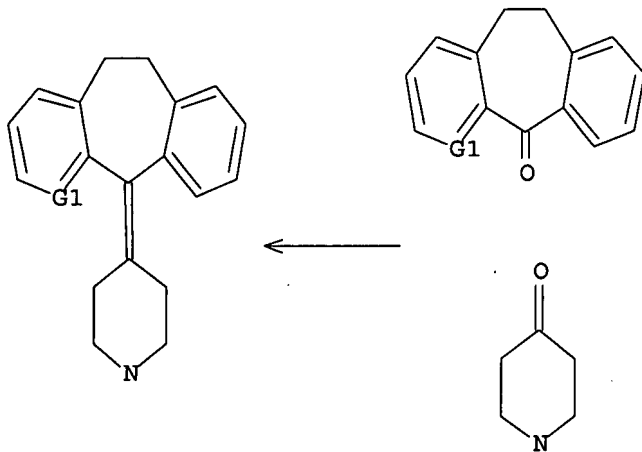
L1 STRUCTURE UPLOADED

L2 0 S L1

L3 3 S L1 FULL

=> d que l3 stat

L1 STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

L3 3 SEA FILE=CASREACT SSS FUL L1 (5 REACTIONS)

100.0% DONE 2831 VERIFIED

5 HIT RXNS

3 DOCS

SEARCH TIME: 00.00.03

=> => d 1-3 bib abs fhit

L3 ANSWER 1 OF 3 CASREACT COPYRIGHT 2007 ACS on STN
 AN 129:230642 CASREACT
 TI Process for the preparation of 10,11-dihydro-5H-dibenzo[a,d]cyclohept-5-
 enes
 IN Jackson, William Paul
 PA Rolabo S. L., Spain
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

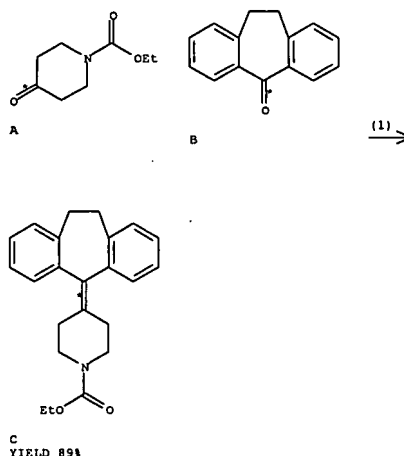
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9838166	A1	19980903	WO 1998-GB605	19980226
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU-9863047	A	19980918	AU 1998-63047	19980226
EP 970050	A1	20000112	EP 1998-907067	19980226
EP 970050	B1	20011024		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AT 207466	T	20011115	AT 1998-907067	19980226
ES 2149737	T3	20011216	ES 1998-907067	19980226
CA 2282480	C	20020423	CA 1998-2282480	19980226
CA 2282480	A1	19980903		
US 6093827	A	20000725	US 1999-383078	19990826
PRAI GB 1997-3992		19970226		
WO 1998-GB605		19980226		
OS MARPAT 129:230642				
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title 10,11-dihydro-5H-dibenzo[a,d]cyclohept-5-ene (e.g. loratadine) [I:] were prepared by reacting a dibenzozuberone II with an aliphatic ketone III in the presence of low valent titanium. The reaction proceeds via an intermediate diol IV which maybe isolated by conducting the reaction at a lower temperature

RX(1) OF 2 A + B ==> C

L3 ANSWER 1 OF 3 CASREACT COPYRIGHT 2007 ACS on STN (Continued)



RX(1) RCT A 29976-53-2, B 1210-35-1
 RGT D 7440-66-6 Zn, E 7550-45-0 TiCl4
 PRO C 134204-86-7
 SOL 109-99-9 THF

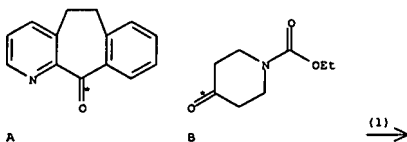
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 3 CASREACT COPYRIGHT 2007 ACS on STN
 AN 128:22821 CASREACT
 TI Preparation of ethyl
 4-(5,6-dihydro-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-ylidene)piperidine-1-carboxylate
 IN Rey, Max; Gladow, Stefan
 PA Cilag Ag, Switz.
 SO Patentschrift (Switz.), 8 pp.
 CODEN: SWXXXAS
 DT Patent
 LA German
 FAN.CNT 1

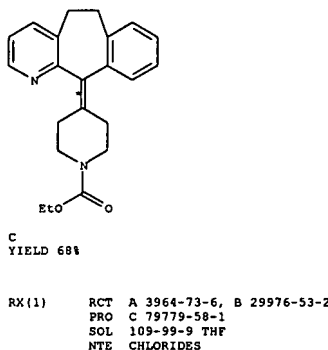
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CH 688412	A5	19970915	CH 1997-571	19970311
WO 9840376	A1	19980917	WO 1998-CH91	19980306
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9860869	A	19980929	AU 1998-60869	19980306
US 2002151714	A1	20021017	US 2000-380835	20000131
PRAI CH 1997-571		19970311		
WO 1998-CH91		19980306		
OS MARPAT 128:22821				

AB The title compound was prepared in 94% yield by condensation of 5,6-dihydro-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-one with 1-(ethoxycarbonyl)-4-piperidone. The 8-chloro- and 8-fluoro- derivs. of the title compound were similarly prepared

RX(1) OF 1 A + B ==> C

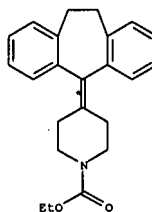


L3 ANSWER 2 OF 3 CASREACT COPYRIGHT 2007 ACS on STN (Continued)



L3 ANSWER 3 OF 3 CASREACT COPYRIGHT 2007 ACS on STN
 AN 127:75517 CASREACT
 TI Synthesis, affinity at 5-HT_{2A}, 5-HT_{2B} and 5-HT_{2C} serotonin receptors and structure-activity relationships of a series of cyproheptadine analogs
 AU Nonrubia, Maria Angeles; Rodriguez, Jesus; Dominguez, Rosa; Loxoya, Estrella; Manaut, Francesc; Seijas, Julio A.; Villaverde, Maria Carmen; Calleja, Jose M.; Cadavid, Maria Isabel; et al.
 CS Department of Pharmacology, Organic and Physical Chemistry, University of Santiago, Santiago de Compostela, E-15706, Spain
 SO Chemical & Pharmaceutical Bulletin (1997), 45(5), 842-848
 CODEN: CPBTAL; ISSN: 0009-2363
 PB Pharmaceutical Society of Japan
 DT Journal
 LA English
 AB Cyproheptadine (Cyp) is a drug that shows high affinity for type 2(5-HT₂) receptors. The authors studied a series of compds. obtained by modification of the tricyclic system of Cyp (dibenzocycloheptadiene ring) to make the thioxanthene, xanthene, dihydrodibenzocycloheptadiene, di-Ph, fluorene, and phenylmethyl analogs. Their activities at the rat cerebral cortex 5-HT_{2A} receptor were (pK_i): 8.80 (Cyp), 8.60 (thioxanthene analog), 8.40 (xanthene analog), 8.05 (dihydrodibenzocycloheptadiene analog), 7.87 (di-Ph analog), 6.70 (fluorene analog) and 6.45 (phenylmethyl analog); those at the rat stomach fundus 5-HT_{2B} receptor (pA₂) were: 9.14 (Cyp), 8.49 (thioxanthene analog), 7.58 (xanthene analog), 7.02 (dihydrodibenzocycloheptadiene analog), 6.07 (di-Ph analog), and undetectable (fluorene analog, phenylmethyl analog); and those at the pig choroidal plexus 5-HT_{2C} receptor (pK_i) were: 8.71 (Cyp), 8.68 (thioxanthene analog), 8.58 (xanthene analog), 7.95 (dihydrodibenzocycloheptadiene analog), 7.57 (di-Ph analog), 6.98 (fluorene analog) and 6.63 (phenylmethyl analog). The slopes did not differ significantly from unity. The compds. exhibited the same order of activities at every type of receptor, and the most active mols. presented certain steric (butterfly conformation of the tricyclic system) and electrostatic (proton affinity on the top of the central rings) patterns. It is concluded that the activity of cyproheptadine derivs. at 5-HT₂ receptors is related to these mol. features, which make feasible a common disposition to interact with all three 5-HT₂ subtypes.

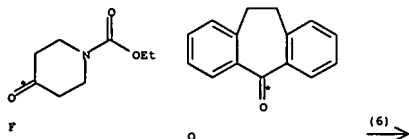
L3 ANSWER 3 OF 3 CASREACT COPYRIGHT 2007 ACS on STN (Continued)



M
YIELD 44%

RX(6) RCT F 29976-53-2, O 1210-35-1
 RGT G 7439-93-2 LI, H 7705-07-9 TIC13
 PRO M 134204-86-7
 SOL 110-71-4 (CH₂OMe)₂
 RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

RX(6) OF 18 F + O ==> M...



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Page 4

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

137.44

137.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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STN INTERNATIONAL LOGOFF AT 11:46:01 ON 22 MAY 2007